



5726

TWIN DIODE

MINIATURE TYPE

Intended for applications where dependable performance under shock and vibration is paramount.

The 5726 is a "premium" version of the 6AL5W.

5726
PREMIUM TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage $6.3 \pm 10\%$ ac or dc volts

Current 0.3 amp

Resonant Frequency (Each unit, approx.) 700 Mc

Direct Interelectrode Capacitances

(With external shield JETEC No.316):

Unit No.1:

Plate to Cathode + External Shield,
Heater, and Internal Shield 3.2 μf

Cathode to Plate + External Shield,
Heater, and Internal Shield 3.9 μf

Unit No.2:

Plate to Cathode + External Shield,
Heater, and Internal Shield 3.2 μf

Cathode to Plate + External Shield,
Heater, and Internal Shield 3.9 μf

Plate of Unit No.1 to Plate of Unit No.2* 0.026 max. μf

Mechanical:

Mounting Position Any

Maximum Overall Length 1-3/4"

Maximum Seated Length 1-1/2"

Length, Base Seat to Bulb Top (Excluding tip) 1-1/8" $\pm 3/32$ "

Maximum Diameter 3/4"

Bulb T-5-1/2

Base Small-Button Miniature 7-Pin (JETEC No.E7-1)

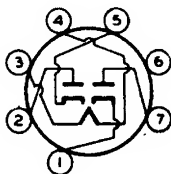
BOTTOM VIEW

Pin 1 - Cathode of
Diode Unit
No.1

Pin 2 - Plate of
Diode Unit
No.2

Pin 3 - Heater

Pin 4 - Heater



Pin 5 - Cathode of
Diode Unit
No.2

Pin 6 - Internal
Shield

Pin 7 - Plate of
Diode Unit
No.1

HALF-WAVE RECTIFIER

Maximum Ratings, Absolute Values:

PEAK INVERSE PLATE VOLTAGE 360 max. volts

PEAK PLATE CURRENT PER PLATE 60 max. ma

* With external and internal shield connected to ground.

SEPT. 1, 1952

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA 1

5726



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TWIN DIODE**HOT-SWITCHING TRANSIENT PLATE CURRENT**

For duration of 0.2 second maximum . . . 350 max. ma
 DC OUTPUT CURRENT PER PLATE 10 max. ma

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode 360 max. volts
 Heater positive with respect to cathode 360 max. volts

Typical Operation:

The two units may be used separately or in parallel

AC Plate-Supply Voltage
 Per Plate (RMS) 117 volts
 Minimum Total Effective Plate-Supply
 Impedance Per Plate 300 ohms
 DC Output Current Per Plate 9 ma

Shock and Vibration Tests:

These tests are made as indicated in the JAN Specifications:
 JAN 1-A for Electron Tubes, May 1946 under the section as follows:

Section F6b (9e) Shock Test:
 Instantaneous Impact Acceleration . . 700 max. g
 Section F6b (9f) Vibration Test:
 Vibrational Acceleration 2.5 max. g

Heater Cycling Life Test:

This test is made as indicated in the JAN Specifications JAN 1-A for Electron Tubes for type 5726/6AL5W.

Cycles of Intermittent Operation:
 . At a heater voltage of 7.5 volts . . . 2000 min. cycles

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

	Note	Min.	Max.	
Heater Current	1	0.275	0.325	amp.
Direct Interelectrode Capacitances (With external shield JETEC No.316):				
<i>Unit No.1:</i>				
Plate to Cathode + External Shield, Heater, and Internal Shield	-	2.4	4.0	$\mu\mu\text{f}$
Cathode to Plate + External Shield, Heater, and Internal Shield	-	2.8	4.4	$\mu\mu\text{f}$
<i>Unit No.2:</i>				
Plate to Cathode + External Shield, Heater, and Internal Shield	-	2.4	4.0	$\mu\mu\text{f}$
Cathode to Plate + External Shield, Heater, and Internal Shield	-	2.8	4.4	$\mu\mu\text{f}$

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TENTATIVE DATA 1



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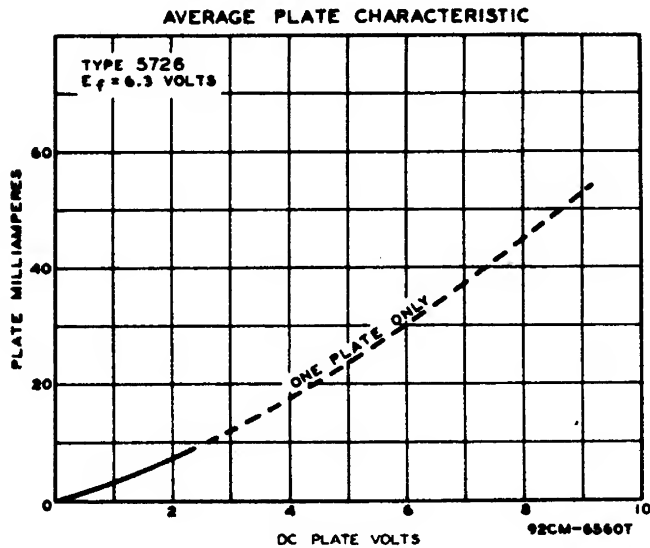
TWIN DIODE

	Note	Min.	Max.	
Plate of Unit No.1 to Plate of Unit No.2	2	-	0.026	μ f
Plate Current (Per Plate) . . .	1,3	40	-	ma

Note 1: With 6.3 volts ac on heater.

Note 2: With external and internal shield connected to ground.

Note 3: With dc plate voltage = 10 volts. Each unit tested separately with electrodes of opposite unit grounded.



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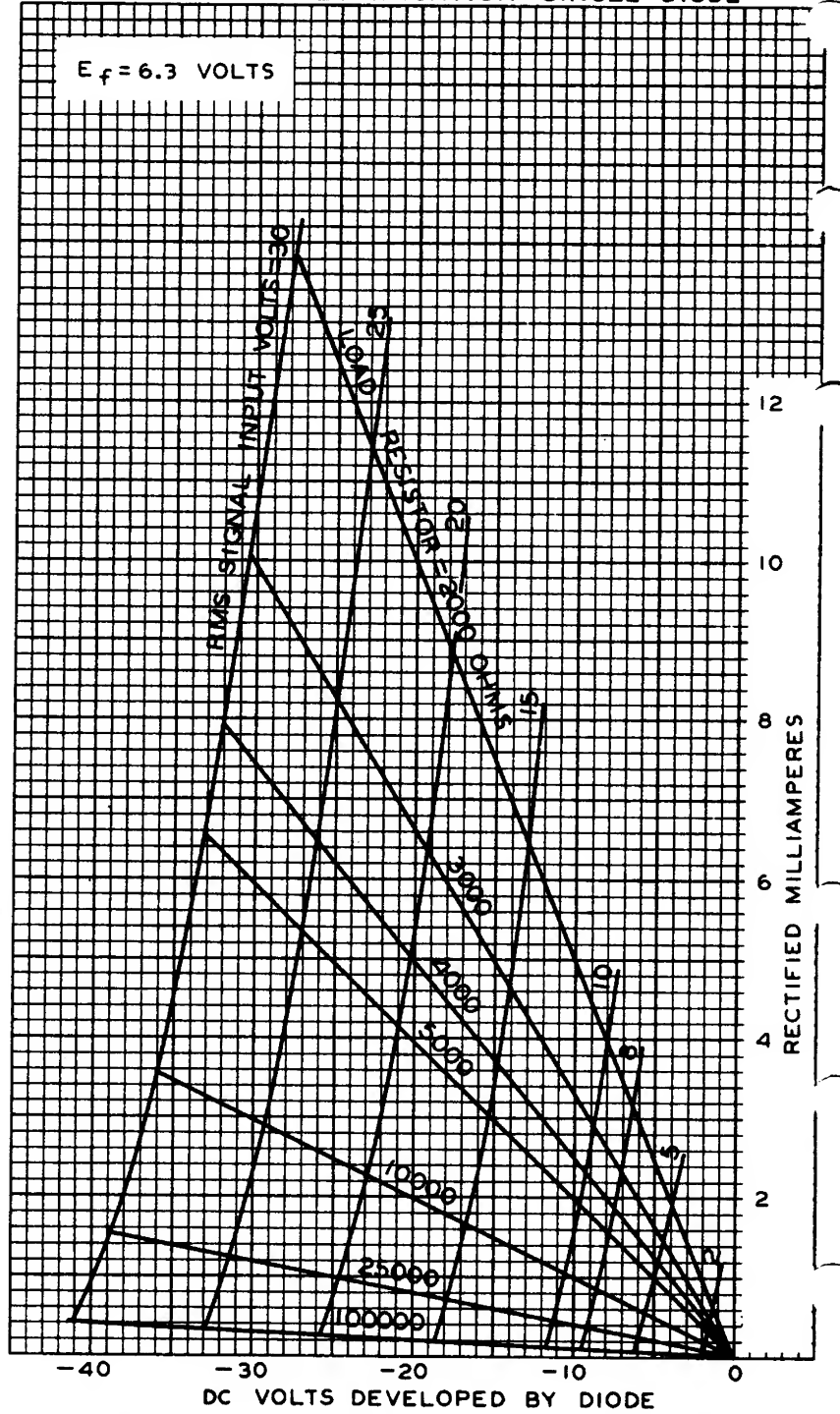
TENTATIVE DATA 2

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5726

AVERAGE CHARACTERISTICS
HALF-WAVE RECTIFICATION-SINGLE DIODE



JUNE 7, 1944

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